## **Operating instructions**

BMW V.O.I.C.E. II communication system for K1200 LT

Details described or illustrated in this booklet may differ from the motorcycle's actual specification as purchased, the accessories fitted or the national-market specification.

No claims of any nature can be derived from this. Dimensions, weights, fuel consumption and performance data are quoted to the customary tolerances.

The right to modify designs, equipment and accessories is reserved.

Errors and omissions

reserved.
Errors and omissions
excepted.
© 2004 BMW Motorrad
Not to be reproduced either
wholly or in part without written
permission from

BMW Motorrad, After Sales. Printed in Germany



#### **BMW Motorrad**

Order No.: 01 41 7 693 691 08.2004 1st edition GB / RF



#### Welcome to BMW

We congratulate you on your choice of a BMW V.O.I.C.E. II communication system. This product will enable you to use all modern means of communication on your motorcycle with maximum ease and to maximum benefit.

Familiarise yourself with the new system before you ride off. Please also read these operating instructions.

Your authorised BMW motorcycle dealer is available at any time to answer questions regarding every aspect of this communication system. We hope that you enjoy using your BMW V.O.I.C.E. II communication system and that all your journeys will be pleasant and safe.

BMW Motorrad.

| Contents                                  |
|---|
| Welcome to BMW                            |
| Overview, control unit 8                  |
| Overview, front of motorcycle             |
| Communication system 8                    |
| Precondition 8 Activating the             |
| communication system 8 Connecting helmets |
| Activating helmet microphones             |
| Using menus S  Overview of                |

functions...... 13

| Mobile phone           | . 15 |
|------------------------|------|
| Precondition           | 15   |
| Setting up the mobile  |      |
| phone                  | 15   |
| SRD two-way radio      | . 17 |
| Precondition           |      |
| Setting up an SRD      |      |
| two-way radio          | 17   |
| CB radio               | . 19 |
| Precondition           |      |
| Setting up the         |      |
| CB radio               | 19   |
| BMW Motorrad           |      |
| Navigator II           | 20   |
| Precondition           |      |
| Setting up the BMW     |      |
| Motorrad Navigator II  | 20   |
| External audio         |      |
| device                 | 21   |
| Precondition           |      |
| Setting up an external |      |
| audio device           | 21   |

| Techn | ical | data | <br>23 |
|-------|------|------|--------|
| Index |      |      | <br>25 |

#### General information

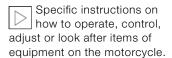
# Information on the operating instructions

We have placed great emphasis on rapid orientation within these operating instructions. The quickest access to a particular topic or item is by consulting the alphabetical index (\*\*\* 25).

When the time comes to sell your BMW, please remember to hand over all the relevant operating instructions; they are, by law, an important part of the vehicle.

## Symbols and abbreviations used

Indicates warnings that you must adhere to – for reasons related to your safety, the safety of others and to prevent damage to your vehicle.



- Indicates the end of a note.
- Instruction.
- » Outcome.

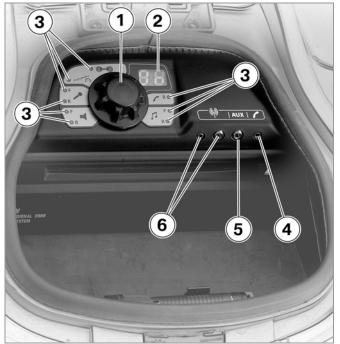
- ( 3) Reference to a page with more detailed information.
- OE Optional extra
  Your motorcycle was
  assembled complete
  with all the optional
  extras you ordered.
- OA Optional accessory
  You can obtain optional
  accessories through
  your authorised BMW
  motorcycle dealer;
  optional accessories
  have to be retrofitted to
  the motorcycle.

### **Technical specifications**

All dimensions, weights and power ratings are quoted to the standards and comply with the tolerance requirements of the Deutsche Institut für Normung e. V. (DIN). Configurations for individual countries may differ.

## Currency

The high quality level of BMW motorcycle accessories is ensured by continuous development and refinement. This can result in deviations between these operating instructions and your communication system. We are also unable to fully exclude mistakes. Please understand that no legal claims can be derived from the specifications, illustrations and descriptions.



## Overview, control unit

- 1 Control knob
- 2 Display for showing settings
- 3 LEDs for selected menu (→ 13)
- 4 Connection for mobile phone (→ 15)
- 5 Connection for external audio device (→ 21)
- 6 Connection for SRD two-way radio (→ 17)

# Overview, front of motorcycle

- **1** BMW send button<sup>OA</sup> for voice communication
- 2 Helmet socket, front (■ 8)
- 3 Connections for CB radio (■ 19) and BMW Motorrad Navigator II (■ 20)





## Motorcycle, rear

1 Helmet socket, rear (→ 9)

The BMW V.O.I.C.E. II communication system operates with BMW stereo helmet inserts or helmet inserts from J&M Corporation. You also need a compatible spiral cable. Advice is available from trade outlets or from your authorised BMW motorcycle dealer.

Using communication facilities can distract your attention from the traffic and lead to accidents.

Use the communication facilities only when the traffic situation enables you to do so without risk. ◀

## Activating the communication system

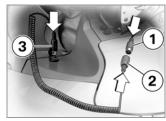
Opening and closing the radio compartment and adjusting settings at the control unit can distract your attention from the traffic and lead to accidents. Do not attempt to operate the control unit while riding.

- Open the lid of the radio compartment.
- Switch on the ignition.
- Switch on the radio.
- » Display shows On.
- » The communication system is active.
- Close the lid of the radio compartment.

If you want to use the communication facilities without using any of the radio

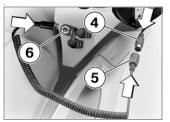
functions, repeatedly press the \*CD button on the radio until the radio display shows INTERCOM.◀

## **Connecting helmets**



- Switch off speed-dependent volume control at the radio (see the operating instructions for the radio).
- Use spiral cable 2 to connect cable 1 of the rider's helmet to front-helmet socket 3.

- » Radio output is now audible in stereo quality on the speakers integrated into the helmet.
- Adjust the volume at the radio (see the operating instructions for the radio).



- Use spiral cable 5 to connect cable 4 of the passenger's helmet to rear-helmet socket 6.
- » Radio output is now audible in stereo quality on the speakers integrated into the helmet.
- » The intercom system is active.

You can switch off the radio loudspeakers on the motorcycle for music playback (see the operating instructions for the radio).

# Activating helmet microphones

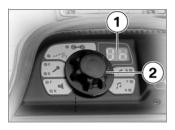
- Speak into the helmet microphone.
- The microphone switches itself on automatically.

The music or the radio output is faded out while you speak. Approximately 4 seconds after conversation ceases the microphones go dead and the music fades in again.

The microphones do not activate themselves unless the passenger's helmet is connected. ◀

If you press the Send button OA while talking, your conversation is transmitted if the two-way radio is switched on, and other parties can listen in. ◀

## Using menus



## Standby ON

When display **1** of the control unit shows **On** and the LEDs are all off, the communication system's status is standby ON.

#### Selecting a function

- Press knob 2.
- » The function-selection mode is active.
- » The LEDs beside the light up.
- Turn knob 2 until the LED beside the function you want to select lights up.
- » The current value of the function appears in display 1.

The communication system returns to standby
ON if the knob is not moved for 5 seconds.

#### Setting a function

- Press knob 2.
- » The LED beside the function you selected lights up.
- » The 'function set' mode is active.

- Turn knob 2 until the value you want appears in display 1.
- Press knob 2.
- » The value you selected is accepted.
- » The function-selection mode is active.

The communication system returns to standby ON if the knob is not moved for 5 seconds. If you do not press the knob after turning it to a value of your choice the communication system returns to standby ON, but note that the new value is accepted even though you did not press the knob.

The section entitled "Overview of functions" (→ 13) lists the various functions and settings.

# Restoring default settings



- Press knob 1.
- » The function-selection mode is active.
- Turn knob 1 until the LED beside ⊕ lights up.
- Press knob 1.
- » The LED starts flashing.
- Hold knob 1 down for 5 seconds.

- » The reset mode is active.
- » rE flashes for 5 seconds in display 2.
- » The system has now been reset to its default settings.

The default volume for output via the helmet speakers might not match your own personal preferences.
Remove the helmets before restoring the default settings.

The default settings are not restored if you release the knob before the LED stops flashing. ◀

# Activation thresholds of the microphones

Ambient noise increases as the motorcycle's speed increases (wind noise is a case in point) and this higher noise level could be sufficient to activate the microphones. In order to avoid inadvertent activation of this nature, the system has activation thresholds to enable automatic adjustment to the noise level. Consequently, when the motorcycle is travelling at speed you and your passenger must speak more loudly into the microphones in order to activate them.

If automatic activation of the microphones is not to your satisfaction, you can manually adjust the activation threshold separately for each helmet (\*\*\*) 13).

The lower you set the activation threshold, the greater is the possibility of ambient noise activating the

microphone. Bear in mind that inadvertent activation could cause the audio source to fade out, even though neither you nor your passenger had spoken into the microphone.

# Speed-dependent volume increase

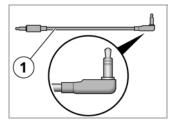
The communication system can automatically adapt the playback volume to the speed of the motorcycle. Note that in order for it to do so, however, the equivalent function must be switched off at the radio and you must have selected one of five possible settings (\*\* 13).

# Switching off the intercom function

You can switch off the intercom function for riding alone or if you do not want to converse with your passenger (\*\*\* 14).

| LED              | Function   | Description  | Range                      | Default setting |
|------------------|--|--|----------------------------|-----------------|
| ( <b>o</b> F ₄ \ | Volume, rider's hel-<br>met (front, F) and pas-                        | Individual volume setting: affects all signal inputs to the helmet in                                | Min. = 1                   | 5               |
| © R ■            | senger's helmet<br>(rear, R)   | question   | Max. = 10                  |                 |
| <b>◎</b> F       | Microphone activa-<br>tion threshold, rider's<br>helmet (front, F) and | Individual adjustment of the activation threshold for high noise levels: the higher the setting, the | Slight increase = 1        | 5               |
| ⊚ R              | passenger's helmet<br>(rear, R)  | higher the activation threshold to compensate for noises when riding at speed (➡ 11)                 | Considerable increase = 10 |                 |
|                  | Speed-dependent volume increase.                                       | Setting for intensity of volume increase: the higher the setting,                                    | No<br>increase = OF        | 3               |
| (•               | rider's helmet   | the more volume is increased to compensate for noises when riding at speed ( 11)                     | Slight increase = 1        |                 |
|                  |  |  | Considerable increase = 5  |                 |

| LED         | Function  | Description  | Range               | Default<br>setting |
|-------------|---|--|---------------------|--------------------|
|             | Intercom  | Activates or deactivates the intercom function (➡ 12)  | Off = OF<br>On = On | On                 |
| <b>₽</b> R⊕ | Handsfree mode,<br>mobile phone audible<br>in passenger's hel-<br>met (rear, R) | Switches the telephone function in the passenger's helmet on and off: three-way conferencing is possible when this function is | Off = OF On = On    | OF                 |
|             |   | ON ( <b>→</b> 16)  | o o                 |                    |
| FO)         | Music playback, rider's helmet  | Activates and deactivates music playback (radio, CD or AUX) in   | Off = OF            | On                 |
| ∠ J J R ⊕   | (front F) and passen-<br>ger's helmet (rear, R)                                 | the helmet in question   |                     |                    |



The communication system has an interface for a mobile phone. The mobile phone needs a connecting kit with adapter cable 1. The cable must have a three-pin jack plug with a diameter of 2.5 mm to connect to the control unit. Consult a trade outlet or your authorised BMW motorcycle dealer for more advice.

# Setting up the mobile phone

Opening and closing the radio compartment and adjusting settings at the control unit can distract your attention from the traffic and lead to accidents. Do not attempt to place a call while riding unless the mobile phone is voice-controlled.



- Open the lid of the radio compartment.
- Use adapter cable 1 to connect the mobile phone to the
   socket of the control unit.
- Activate the mobile phone's automatic call pickup function.
- Place the mobile phone in the stowage compartment in front of the control unit.
- Close the lid of the radio compartment.

- Connect the helmets ( ■ 8).
- Switch on the ignition.
- The communication system operates in the usual way
   (\*\*\* 8).
- » Incoming calls are picked up automatically.
- » The handsfree function is active.

Radio output and wireless connections are faded out while telephone calls are in progress.

You use the mobile phone's functions to set the basic volume for telephone connections. ◀

The phone is powered exclusively by its internal rechargeable battery. The battery is not recharged by the motorcycle's on-board supply.

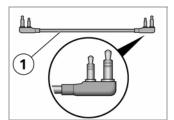
#### Concluding a call

Your mobile phone switches off automatically when the caller clears the connection. At your end, you can clear the connection only by stopping the motorcycle and manually interrupting the call by pressing the appropriate button on your mobile phone.

# Telephone connection, passenger's helmet

It is possible to conduct a three-way telephone conference between caller, rider and passenger, and it is also possible to deactivate the handsfree function for the passenger (\*\* 14).

If the handsfree function for the passenger is deactivated, the passenger's radio volume is not reduced as soon as he or she speaks into the microphone.◀



The BMW V.O.I.C.E. II communication system has a socket for short-range devices (SRD) for two-way radio communication; these devices were formerly known as LPD (low power devices). In order to use an SRD transceiver you need a radio adapter cable 1 and BMW Send button OA on the handlebars. The radio adapter cable must have two three-pin jack plugs, one with

a diameter of 2.5 mm and the other with a diameter of 3.5 mm, to connect to the control unit. Consult a trade outlet or your authorised BMW motorcycle dealer for more advice.

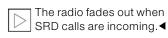
# Setting up an SRD two-way radio

Opening and closing the radio compartment and adjusting settings at the control unit can distract your attention from the traffic and lead to accidents. Do not attempt to operate the control unit while riding.



- Use radio adapter cable 1 to connect the two-way radio to the socket of the control unit.
- Switch on the two-way radio.
- Place the two-way radio in the stowage compartment in front of the control unit.
- Close the lid of the radio compartment.
- Connect the helmets (→ 8).
- Switch on the ignition.

- » Incoming radio calls are received automatically.
- » Three-way conferencing between rider, passenger and caller is active.



You use the two-way radio's functions to set the basic volume for wireless connections. ◀

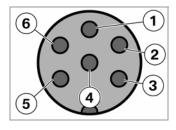
# Answering incoming radio calls



Press the Send button<sup>OA</sup> 1
 on the handlebars and hold it
 down while speaking.

The two-way radio is faded out while a telephone call is in progress. If you press the Send button of your two-way radio at this juncture, your telephone call is broadcast and can be listened to.

As well as supporting SRD two-way radios, the BMW Motorrad communication system has an interface for connecting a CB radio ( 6). The protective cap covering the socket has to be removed before the radio can be connected. The socket's pinout is as follows:



#### 1 Not used

#### 2 Funk.SP+

Audio input: audio signal from CB radio (loudspeaker output of the CB radio)

- 3 Not used
- 4 GND Ground
- **5 PTT**Signal Se

Signal Send button Active=LOW

#### 6 FNK.Mic+

Audio output; signal to the CB radio (microphone input of the CB radio) Max.  $250\text{mV}_{\text{eff}}$  set to  $300\Omega$ 

## Setting up the CB radio

Method of operation and procedures for use as the same as for an SRD two-way radio (\*\* 17). Consult your authorised BMW motorcycle dealer for advice on installing and customising your CB radio.

The BMW Motorrad
Navigator II is available as
either an optional accessory or
an optional extra. You also
need a compatible connecting
kit. Consult your authorised
BMW motorcycle dealer for
advice.

See the appropriate operating instructions for a detailed description of the BMW Motorrad Navigator II.

If you motorcycle has a BMW Motorrad Navigator preparation kit<sup>OE</sup>, the audio input is already connected to the connecting cable for the Navigator (➡ 6).◀

If you install a BMW Motorrad Navigator II<sup>OA</sup>, the audio input has to be connected to the connecting cable for the Navigator (see the installation instructions for the BMW Motorrad Navigator II).

# Setting up the BMW Motorrad Navigator II

- Switch on the Navigator.
- Connect the helmets (→ 8).
- » Navigation messages are output via the rider's helmet.
- » The communication system operates in the usual way (➡ 8).

You use the Navigator's functions to set the basic volume for navigation messages. ◀

The audio input for the Navigator has top priority, which means that all the Navigator's voice outputs are directed to the rider's helmet. Other audio signals are faded out.

Please note that Navigator voice outputs override the intercom function. ◀

The communication system has an interface for an external audio device. You can connect stereo audio playback devices such as an MP3 player, for example, provided they have a LINE OUT output and that they fit in the stowage compartment in front of the control unit. You also need a compatible connecting cable. The cable must have a stereo jack plug with a diameter of 3.5 mm to connect to the control unit. Consult a trade outlet or your authorised BMW motorcycle dealer for more advice.

# Setting up an external audio device

Opening and closing the radio compartment and adjusting settings at the control unit can distract your attention from the traffic and lead to accidents. Do not attempt to operate the control unit while riding.



 Open the lid of the radio compartment.

- Use adapter cable 1 to connect the LINE OUT output of the audio device to the AUX socket of the control unit.
- Place the audio device in the stowage compartment in front of the control unit.
- Close the lid of the radio compartment.
- Connect the helmets (→ 8).
- Switch on the radio.
- Repeatedly press the CD button on the radio until AUX appears in the radio display.
- Switch on the audio device.
- » Music is now audible in stereo quality on the speakers integrated into the helmets.
- » The intercom system operates in the usual way (➡ 14).
- Adjust the volume at the radio (see the operating instructions for the radio).

If you use an output with a preamplifier (a headset output, for example) instead of a LINE OUT output, playback volume corresponds to the setting selected at the audio device.

Remember to adjust the volume before switching on the audio device. ◀

| Current consumption           | Standby operation (helmets connected, no voice transmission)           | approx. 210mA                      |
|-------------------------------|--|------------------------------------|
|                               | Maximum  | approx. 300mA                      |
| Operating voltage             | On-board supply (negative to ground, with reverse-polarity protection) | 9V – 16V                           |
| Frequency range               | Voice signal (mono)  | 200Hz - 2,000Hz<br>± 3 dB          |
| Frequency range               | Music (stereo)   | 40Hz - 20,000 Hz<br>± 3 dB         |
| Audio input<br>(AUX)          | Stereo (also suitable for bridge-configuration amplifiers)             | 4.5V <sub>eff</sub><br>per channel |
| Input phone and two-way radio | High-ohmic   | max. 200mV <sub>eff</sub>          |

Audio outputs Bridge configuration max.  $0.5W / 32\Omega$ 

Loudspeakers High-ohmic

Microphone Elektret type

Prioritisation of the 1. BMW Motorrad Navigator II acoustic signals

2. Mobile phone 3. Two-way radio

4. Audio input (AUX)

5. Radio / CD

#### Α setting a function, 10 Abbreviations, 3 Connecting helmets, 8 Accessories Connection BMW optional accessories, 3 BMW Motorrad Navigator II, 6 BMW optional extras. 3 CB radio. 6 Activating helmet microphone, 9 external audio device. 5 Answering incoming radio mobile phone, 5 calls, 18 SRD two-way radio, 5 Control unit, 5 В BMW Motorrad Navigator II D connection, 6 Display of setting, 5 precondition, 20 F setting up, 20 External audio device C connection, 5 CB radio precondition, 21 connection, 6 setting up, 21 precondition, 19 Н setting up, 19 Handsfree telephony, Communication passenger's helmet, 14 restoring default settings, 10 Helmet socket Communication system front. 6 activating, 8 rear, 7 precondition, 8

Intercom function switching off, 12, 14 switching on, 14 LED for selected menu. 5 М Microphone activation thresholds, 11 Microphone activation threshold passenger's helmet, 13 rider's helmet, 13 Mobile phone connection, 5 precondition, 15 setting up, 15 Music playback passenger's helmet, 14

rider's helmet. 14

# P Passenger's helmet handsfree telephony, 14 microphone activation threshold, 13

music playback, 14 volume, 13 volume increase, 13

#### R

Rider's helmet microphone activation threshold, 13 music playback, 14 volume, 13 volume increase, 13

#### S

Send button for voice communication, 6 Speed-dependent volume increase, 11 SRD two-way radio connection, 5 precondition, 17 setting up, 17 Symbols, 3

#### T

Telephone connection, passenger's helmet, 16

## ٧

Volume passenger's helmet, 13 rider's helmet, 13 Volume increase passenger's helmet, 13 rider's helmet, 13

## W

Warnings, 3

## Vehicle/dealership data

| Vehicle data                  | Dealership data                          |
|-------------------------------|--|
| Model                         | Person to contact in Service             |
| Vehicle identification number | Ms./Mr.                                  |
| Colour code                   | Phone number                             |
| First registration            |  |
| Registration number           | Dealership address/phone (company stamp) |